

BW - Authorization scope management

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Overview

In order to manage authorization of BW data, we start to use C_AUTHMA (Scope) attribute of master data to manage the authorization of Carve out in BW (like from PAX project).

As we have following [authorization objects](#) (this document managed by authorization team) to control all applications, therefore, we need to add C_AUTHMA into the following master data as attributes:

0COMP_CODE	0PLANT	0PROFIT_CTR	C_AGRITM	C_COMPCDE	C_COMPPRS	C_COSTCTR	C_PLANT	C_PMORDER	C_PMORDR	C_WBS_EL2	C_WBS_ELE	0EHS_AUTH	0EHS_SPEC	C_SCOPE
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In all BW sensible applications, the [GBU Master data](#) + company code or/and plant or minimum GBU as added as authorization objects to split the data to follow the authorization rules. All BW query must have C_AUTHMA as authorization object.

Contacts

The main contact for SBS is caroline.mathieu-stoissich@solvay.com about all divestment or merge

The main contact for SBS about PAX is maria.pasquale@solvay.com

How to update authorization scope (Version 2)

1. Update flat file

At the moment, we need to update the authorization scope to 3 companies objects (C_COMPCDE, 0COMP_CODE, and C_COMPPRS) by flat file

1.1 Modify scope in flat file. The format of the file is [here](#) (can change only impacted companies)

Note:

C_COMPCDE, it is required to check on each system. Since the source systems are not the same:

0COMP_CODE will equivalent for source system WP1 since the loading come from WP1 only

In case, COMPCDE <-> COMPPRS, we need to change on the C_COMPPRS field = C_COMPCDE__C_COMPPRS

eg. C_COMPPRS = 6115 = C_COMPCDE__C_COMPPRS / C_COMPCDE = 6111 (WP1_400)

2. Upload files to BW

We have to upload these files by program SE38 : ZBW_FILE_TRANSFERT to

Logical path = Z_C_AUTHMA = /exploit/BW/authorization_scope/

C_COMPCDE <- DTS_AUTH_C_COMPCDE (file Z_C_COMPCDE_C_AUTHMA = C_COMPCDE_Auth_MA.csv)

0COMP_CODE <- DTS_AUTH_0COMP_CODE (file Z_0COMP_CODE_C_AUTHMA = 0COMP_CODE_Auth_MA.csv)

C_COMPPRS <- DTS_AUTH_C_COMPPRS (file Z_C_COMPPRS_C_AUTHMA = C_COMPPRS_Auth_MA.csv)

**Company PRS code need to check on C_COMPCDE to know the code of PRS that need to be changed

⚠ To update in WBDWBQWBV, file C_COMPCDE is required to change the source system ID according to the BW system

3. Update global filter

3.1 **Excepted plant**, in case Solvay sold a company but some plant still belong to Solvay, we need to add this exception in global filter

Rule C_PLANT for C_PLANT object, which required first 3 letters of source system

Rule OPLANT for OPLANT object, which is required only plant code

/BIC/C_STREAM	/BIC/C_RULE	/BIC/C_GLBFLT	OBJVERS	CH/B	/BIC/C_SIGN	/BIC/C_OPTION	/BIC/C_LOW	/BIC/C_HIGH	/BIC/C_ACTIVE
AUTHORIZMA	OPLANT	000	A				POS1	ECO	Y
AUTHORIZMA	OPLANT	001	A				6005	SCO	Y
AUTHORIZMA	OPLANT	002	A				6540	SCO	Y
AUTHORIZMA	OPLANT	003	A				7423	SCO	Y
AUTHORIZMA	OPLANT	004	A				7424	SCO	Y
AUTHORIZMA	OPLANT	005	A				7425	SCO	Y
AUTHORIZMA	OPLANT	006	A				7426	SCO	Y
AUTHORIZMA	OPLANT	007	A				7489	SCO	Y
AUTHORIZMA	OPLANT	008	A				7490	SCO	Y
AUTHORIZMA	OPLANT	009	A				7520	SCO	Y
AUTHORIZMA	OPLANT	010	A				7522	SCO	Y
AUTHORIZMA	OPLANT	011	A				7544	SCO	Y
AUTHORIZMA	OPLANT	012	A				7595	SCO	Y
AUTHORIZMA	OPLANT	013	A				7599	SCO	Y
AUTHORIZMA	OPLANT	014	A						N
AUTHORIZMA	C_PLANT	000	A				PF1_POS1	ECO	Y
AUTHORIZMA	C_PLANT	001	A				WP1_6005	SCO	Y
AUTHORIZMA	C_PLANT	002	A				WP1_6540	SCO	Y
AUTHORIZMA	C_PLANT	003	A				WP1_7423	SCO	Y
AUTHORIZMA	C_PLANT	004	A				WP1_7424	SCO	Y
AUTHORIZMA	C_PLANT	005	A				WP1_7425	SCO	Y
AUTHORIZMA	C_PLANT	006	A				WP1_7426	SCO	Y
AUTHORIZMA	C_PLANT	007	A				WP1_7489	SCO	Y
AUTHORIZMA	C_PLANT	008	A				WP1_7490	SCO	Y
AUTHORIZMA	C_PLANT	009	A				WP1_7520	SCO	Y
AUTHORIZMA	C_PLANT	010	A				WP1_7522	SCO	Y
AUTHORIZMA	C_PLANT	011	A				WP1_7544	SCO	Y
AUTHORIZMA	C_PLANT	012	A				WP1_7595	SCO	Y
AUTHORIZMA	C_PLANT	013	A				WP1_7599	SCO	Y
AUTHORIZMA	C_PLANT	014	A						N

Note: C_PLANT, we need to have first 3 characters of source system following with " _ " (under scroll) as well while OPLANT does not need

~~3.2 Impacted company, we can specific company to reload in order to speed up the reload all master data.~~

~~Rule IMPCOMP to use in DTP to filter to reload only these company code~~

Global Filter Stream (Application)	Global Filter Rule	Global Filter	Global Filter Description	Global Filter Sign	Global Filter Option	Global Filter Low Value	Global Filter Hight Value	Global Filter Active
AUTHORIZMA	IMPCOMP	002	Reload impact Company			5899		Y
AUTHORIZMA	IMPCOMP	003	Reload impact Company			5963		Y
AUTHORIZMA	IMPCOMP	004	Reload impact Company			6396		Y
AUTHORIZMA	IMPCOMP	005	Reload impact Company			7246		Y
AUTHORIZMA	IMPCOMP	006	Reload impact Company			7248		Y
AUTHORIZMA	IMPCOMP	007	Reload impact Company			7250		Y

~~3.3 Impacted plant, we can specific plant to reload in order to speed up~~

~~Rule IMPLANT to use in DTP to filter to reload only these plant code - get the list of plant in the C_PLANT master data~~

Global Filter Stream (Application)	Global Filter Rule	Global Filter	Global Filter Description	Global Filter Sign	Global Filter Option	Global Filter Low Value	Global Filter Hight Value	Global Filter Active
AUTHORIZMA	IMPLANT	001	Reload impact Plant			7DDY		Y
AUTHORIZMA	IMPLANT	002	Reload impact Plant			7DTY		Y
AUTHORIZMA	IMPLANT	003	Reload impact Plant			7EJY		Y
AUTHORIZMA	IMPLANT	004	Reload impact Plant			HNB		Y
AUTHORIZMA	IMPLANT	005	Reload impact Plant			HOB		Y

Note: point 3.2 and 3.3 are required to set flag "Global Filter Active" as "N" or delete it after reload completed

4. Run process chain PC_C_AUTHMA

~~Run process chain PC_C_AUTHMA it will update all master data attributes regarding the global filter on company code and plant that we selected only.~~

5. Check Authorization

Check with authorization team that the new roles are assigned to the impacted users already if required.

How authorization scope is updated (Version 3)

This will be automatic by getting new field from PF1_050. [This is plan](#). Will review the plan again after M2C project in Oct 2021

Company Scope assignment

Instead of using flat files to update the Authorization scope in BW, the company scope assignment is now retrieved for the table ZZF_T001_MGT in the PRS (PF1_050) system.

Data Browser: Table ZZF_T001_MGT Select Entries

MANDT	BUKRS	DATI	SCOPE	METHOD	CONTROL	DATAB
050	0560	31.01.2020	08	30	50,00	01.01.2000
050	0560	31.12.9999	08	90	0,00	01.02.2020
050	0621	31.12.2014	03	10	100,00	01.01.2000
050	0621	31.12.9999	03	80	0,00	01.01.2015
050	0845	31.12.9999	02	70	0,70	01.01.2000
050	0849	31.10.2019	02	20	100,00	01.01.2000
050	0849	31.12.9999	02	80	0,00	01.11.2019
050	0861	31.05.2014	02	10	100,00	01.01.2000
050	0861	31.12.2014	02	90	0,00	01.06.2014
050	0861	31.12.9999	02	90	0,00	01.01.2015
050	0974	22.02.2017	19	10	100,00	01.01.2012
050	0974	31.12.9999	19	90	0,00	22.02.2017

The scope code (01, 02, 03...) is mapped to the corresponding Authorization scope (SOLVAY, ECO, SCO,...) in the table ZFI_T001_SCOPES in the PRS (PF1_050) system.

This table is used to populate data in the BW C_SCOPE Master Data with the datasource DTS_ZFI_T001_SCOPES from PF1_050.

/BIC/C_SCOPE	OB...	C...	/BIC/C_AUTHMA
00	A		UNASSIGNED
01	A		SOLVAY
02	A		ECO
03	A		SCO
04	A		ACETOW
05	A		AEROVAC
06	A		ALCACHITE

The table ZZF_T001_MGT is read to populate data in the BW C_COMPPRS Master Data with the datasource ZZR_0COMP_CODE_ATTR_PRS from PF1_050.

Especially the scope number assignment C_SCOPE.

Transformation		TRSF: ZZR_0COMP_CODE_ATTR_PRS PRS -> C_COMP...		Runtime Status		Only ABAP runtime is supported	
Source		PRS Company code (ZZR_0COMP_CODE_ATTR_PRS)					
Target		PRS Company code (C_COMPPRS)					
Version		Active					
Active Version		Executable					
		Edited Version					
		Rule Group					
		Rule					

/BIC/...	OI	/BIC/C_SCOPE	/BIC/C_AUTHMA	/BIC/K_INTRA02	/BIC/K_INTRA03	/BIC/C_FLGIN02	/BIC/C_FLGIN03
A		00	UNASSIGNED	0,000	0,000		
0001	A	02	ECO	100,000	0,000	X	
0003	A	03	SCO	0,000	100,000		X
0005	A	02	ECO	100,000	0,000	X	
0007	A	02	ECO	0,000	0,000		
0010	A	00	UNASSIGNED	0,000	0,000		
0011	A	00	UNASSIGNED	0,000	0,000		
0012	A	02	ECO	100,000	0,000	X	
0013	A	02	ECO	0,000	0,000		
0014	A	02	ECO	0,000	0,000		
0015	A	00	UNASSIGNED	0,000	0,000		
0016	A	02	ECO	100,000	0,000	X	
0017	A	02	ECO	0,000	0,000		
0020	A	02	ECO	100,000	0,000	X	

Remark: The **update** of C_COMPPRS Master Data from PF1_050 (and from the MGT table) is **conditionned to the monthly PRS freeze** in all process chains.

This freeze is configured in the **Global Filter GLOBAL / PRSFREEZE**, by default from the 1st to the 20th of the month:

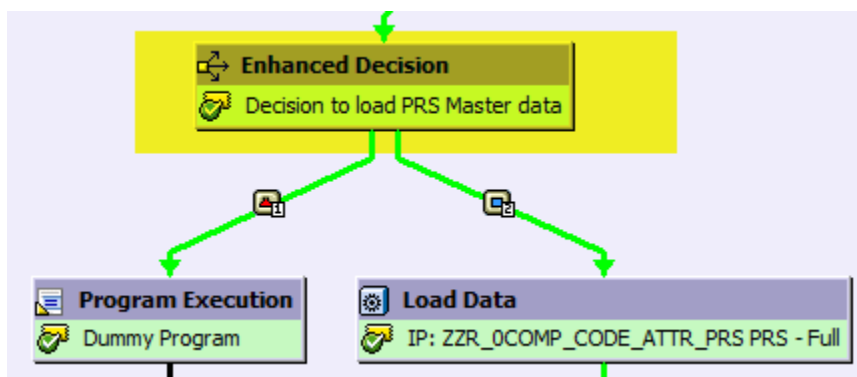


Table: /BIC/PC_GLBFLT

/BIC/C_STREAM	/BIC/C_RULE	/BIC/C_GLBFLT	OBJVERS	CHANGED	/BIC/C_DESC	/BIC/C_SIGN	/BIC/C_OPTION	/BIC/C_LOW	/BIC/C_HIGH
GLOBAL	PRSFREEZE	001	A		Freeze for PRS Company code (in Workdays)	I	BT	1	20

The scope number (C_SCOPE) is then used in several rules to define:

- C_AUTHMA: Authorization scope (ECO, SCO, ACETOW...)
- C_FLGIN02/03: Intercompany Flag for ECO or SCO
- K_INTRA02/03: Integration Rate for ECO or SCO

These rules are applied when loading the C_COMPPRS Master Data.

NB: C_FLGIN02/03 & K_INTRA02/03 attributes are used in Finance application and loaded into several related master data by Finance specific Process chains (PC_FIWC_05, PC_FIWC_02, PC_FIWC_03).

Authorization scope assignment in BW

Concerning the **C_AUTHMA** update, is it done **ONLY IN** the **recursive transformation** on the Master data **C_COMPPRS**, based on a C_SCOPE Master data lookup.

PRG Company code				C_COMPPRS			
PRG Company code (Attributes)				ATTRIBUTES C_COMPPRS			
RSDS DTS_AUTH_C_COMPPRS PC_FILE -> IOBJ C_COMPPRS				0GJ330DPUV6PVN9069D58BNBM3UY90T6			
TRSF : DTS_C_COMPPRS_C_PSCOPE -> C_COMPPRS				05T52DSNWUXMM1K0JCMTRZ1NRG685IX3			
TRSF: C_COMPPRS -> C_COMPPRS				0CKAXAP6Q230OY0EACGJ373008IG61RN			
PRG Company code (Attributes)				ATTRIBUTES C_COMPPRS			

29	C_AUTHMA	Authorization Scope	CHAR	000010	⌘	C_SRCYST	26	C_SRCYST	Source System
30	K_INTRA02	Eco Integration Rate	DEC	000017	⌘	C_PMERBK	27	C_PMERBK	Merged into PRS Company
31	K_INTRA03	Sco Integration Rate	DEC	000017	⌘	C_MERDAT	28	C_MERDAT	Merging date
32	C_SCOPE	Scope code	NUMC	000002	⌘	Read from C_SCOPE	29	C_AUTHMA	Authorization Scope
33	C_FLGIN02	Intercompany Flag (ECO)	CHAR	000001	⌘	K_INTRA02	30	K_INTRA02	Eco Integration Rate
34	C_FLGIN03	Intercompany Flag (SCO)	CHAR	000001	⌘	K_INTRA03	31	K_INTRA03	Sco Integration Rate
					⌘	C_SCOPE	32	C_SCOPE	Scope code
					⌘	C_FLGIN02	33	C_FLGIN02	Intercompany Flag (ECO)

C_COMPPRS is the main entry point in BW for the authorization scope C_AUTHMA assignment.

This assignment is then loaded into other related Master Datas (C_COMPCDE, C_PLANT, C_WBS_EL2...) through lookups in the dedicated Process chain PC_C_AUTHMA (see details below).

Authorization scope assignment priority

For all the companies that are not maintained with a scope value in table ZZF_T001_MGT (with a valid date), the default value in BW will be:

C_SCOPE = 00 --> C_AUTHMA = UNASSIGNED

That means that these unassigned companies will not be displayed anymore in the BW reports, except for the users authorized on all scopes (C_AUTHMA = *).

Although, it will still be possible to **manually redefine in BW the C_SCOPE and C_AUTHMA values** for these companies directly **by maintaining MD C_COMPPRS on demand**.

But to do so, the following rule in the transformation has been implemented: PRS_020/ZZR_0COMP_CODE_ATTR_PRS PRS -> C_COMPPRS

IF: the scope loaded from PF1_050 is equal to 00 (because missing in MGT table or past validity date)

THEN: keep the scope value already assigned in C_COMPPRS (to not overwrite any potential manual assignment by 00).

To conclude, the scope assignment priority will be the following:

P1: Scope assigned in the PRS / ZZF_T001_MGT

P2: Scope assigned directly in BW Master Data C_COMPPRS

Note: On D1: All company scopes assigned in ZZF_T001_MGT will be updated in BW. All other companies will be assigned to 00 UNASSIGNED (and removed from reports for most of users) till a manual assignment in BW is requested.

Process chain PC_C_AUTHMA

The PC_C_AUTHMA purpose is to refresh the Authorization Scope C_AUTHMA in the Master data C_COMPPRS from source table PRS (PF1_050) / ZZF_T001_MGT, and to diffuse the the assignment to all other relevant Master Datas.

Based on the current Master Data load time in WBP, the chain **PC_C_AUTHMA** has scheduled on a **DAILY basis at 08:00 am CET**.
[blocked URL](#)

In order to limit the volumetry of some Master Data reload, the list of the company and plant to be reloaded are stored in the Global Filter :

- Stream = AUTHORIZMA / Rule = IMPCOMP
- Stream = AUTHORIZMA / Rule = IMPLPLANT

These global filter lists are not manually maintained anymore.

It is automatically updated by a program triggered by the chain that will compare and list the company code for which the authorizations scope has changed.

Table: /BIC/PC_GLBFLT

/BIC/C_STREAM	/BIC/C_RULE	/BIC/C_GLBFLT	OBJVERS	CH/BIC/C_DESC	/B...	/BIC/...	/BIC/C_...	/B...
AUTHORIZMA	IMPCOMP	000	A	DUMMY value for Company reload on auth. scope C_AUTHMA update	I	EQ	DUMMY	Y
AUTHORIZMA	IMPCOMP	001	A	Reload impact Company for auth. scope C_AUTHMA update	I	EQ	5991	Y
AUTHORIZMA	IMPLANT	000	A	DUMMY value for Plant reload on auth. scope C_AUTHMA update	I	EQ	DUMMY	Y
AUTHORIZMA	IMPLANT	001	A	Reload impact Plant for auth. scope C_AUTHMA update	I	EQ	CZS	Y
AUTHORIZMA	IMPLANT	002	A	Reload impact Plant for auth. scope C_AUTHMA update	I	EQ	CZSA	Y
AUTHORIZMA	IMPLANT	003	A	Reload impact Plant for auth. scope C_AUTHMA update	I	EQ	CZSX	Y

Remarks:

- The entries **AUTHORIZMA / 000 with Company and Plant code = DUMMY must not be removed or disabled**. Its purpose is to restrict the DTP filters to avoid unnecessary FULL reload when no scope update is detected
- The entries AUTHORIZMA / from 001 to 999 are automatically erased and re-inserted by the program 'ZBW_C_AUTHMA_UPDATE_GLBFLT' with the company/plant codes to be updated (see detailed steps below)

Detailed steps of the process chain PC_C_AUTHMA

1. Reload **C_SCOPE** master data from PRS (PF1_050) ZFI_T001_SCOPES table
2. Reload **C_COMPPRS** from PRS (PF1_050) datasource with extraction enhancement from table ZZF_T001_MGT to get assigned attributes: scope numbers, intercompany flags, integration rates...
NB: This update is **conditioned to the monthly PRS freeze**, configured in the Global Filter GLOBAL / PRSFREEZE, by default from the 1st to the 20th day of the month.
[blocked URL](#)
3. Reload of **C_COMPPRS** using **recursive** transformation to update Authorization scope **C_AUTHMA** attribute (based on C_SCOPE Master data lookup)
4. Run of **program: 'ZBW_C_AUTHMA_UPDATE_GLBFLT'**:
 - a. Compare updated /BIC/PC_COMPPRS-C_AUTHMA vs non updated /BIC/PC_COMPCDE-C_AUTHMA
 - b. List company codes (values of /BIC/PC_COMPCDE-C_COMPCDE) that have different values for field C_AUTHMA
 - c. Update Company list in global filter (AUTHORIZMA / IMPCOMP) used to restrict volume for Master Data update
 - d. Update Plant list in global filter (AUTHORIZMA / IMPLANT) by reading /BIC/PC_PLANT : C_COMPCDE - C_PLANT (distinct)
5. Reload **C_COMPCDE** from **both source** systems PF1 & WP1 updating all attributes, including C_AUTHMA based on C_COMPPRS Master data lookup.
6. Reload of **C_COMPCDE** using **recursive** transformation to update Authorization scope C_AUTHMA attribute based on C_COMPPRS Master data lookup.

This myself reload is filtered on the companies that have been listed by the program in the Global (AUTHORIZMA / IMPCOMP).
NB.: This recursive loop will update all records having a valid link to C_COMPPRS (even non-ERP entries).
7. Reload **0COMP_CODE** from **source** systems WP1 updating all attributes, including C_AUTHMA based on C_COMPCDE Master data lookup.
Reload of **0COMP_CODE** using **recursive** transformation to update Authorization scope C_AUTHMA attribute based on C_COMPCDE Master data lookup.
This myself reload is filtered on the companies that have been listed by the program in the Global Filter (AUTHORIZMA / IMPCOMP).
8. Reload of **0PLANT** using **recursive** transformation to update Authorization scope C_AUTHMA attribute based on 0COMP_CODE Master data lookup.
This myself reload is filtered on the companies that have been listed by the program in the Global Filter (AUTHORIZMA / IMPCOMP).
9. Reload of **C_PLANT** using **recursive** transformation to update Authorization scope C_AUTHMA attribute based on C_COMPCDE Master data lookup.
This myself reload is filtered on the companies that have been listed by the program in the Global Filter (AUTHORIZMA / IMPCOMP).
10. Additional Master Data reload using recursive transformation to update Authorization scope C_AUTHMA attribute based on:
 - a. C_COMPCDE Master data lookup, and filter on listed companies in the Global Filter (AUTHORIZMA / IMPCOMP) :
 - C_AGRITM
 - C_COSTCTR
 - b. 0PLANT Master data lookup, and filter on listed plants in the Global Filter (AUTHORIZMA / IMPLANT) :
 - C_WBS_ELE
 - C_PMORDER

c. C_PLANT Master data lookup, and filter on listed plants in the Global Filter (AUTHORIZMA / IMPPLANT) :

- C_WBS_EL2
- 0PROFIT_CTR
- C_PMORDR

Important document

[Main control carve out files starting from 2021](#)

[PAX project kick off](#)

[GBU structure for PAX](#)

[8095 PAX, EIRENE & JV - Structures \(official\)](#)

[Documentation shared to BASF, Alsachimie and Domo](#)

V3 Documentation:

[Authorization scope update in MD - Test Document for PC_C_AUTHMA and program ZBW_C_AUTHMA_UPDATE_GLBFLT](#)